

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Tzu-Yu Wang et al.

Serial No.: 10/606,104

Examiner: unknown

Filing Date: June 25, 2003

Group Art: unknown

For: INP BASED LONG WAVELENGTH VCSEL

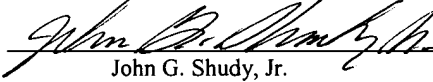
Docket No.: H0004823 (1139.1140101)

**TRANSMITTAL SHEET**

Assistant Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450


**CERTIFICATE UNDER 37 C.F.R. 1.8:** I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on this 12th day of November, 2003.

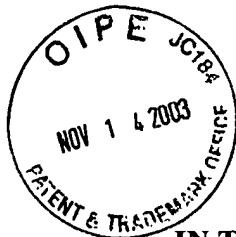
By:

  
John G. Shudy, Jr.

We are transmitting herewith the attached:

- ☒ Information Disclosure Statement, Form PTO-1449 and 248 cited references.  
☒ Please charge any deficiencies or credit any overpayment in the enclosed fees to Deposit Account No. 50-0413.

  
John G. Shudy, Jr., Reg. No. 31,214  
CROMPTON, SEAGER & TUFTE, LLC  
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**INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))**

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By: 

John G. Shudy, Jr.

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F. R. §1.98(a)(2), a copy of each US patent or other information listed on the enclosed Form 1449 is provided.

No representation is intended to be made hereby that any of the cited references establishes, by itself or in combination with other information, a prima facie case of unpatentability of any claim of the present case.

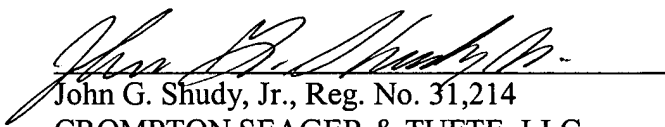
Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

Tzu-Yu Wang et al.

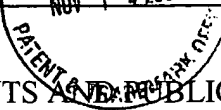
By their attorney,

Date: 11/12/03

  
John G. Shudy, Jr., Reg. No. 31,214  
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FORM PTO-1409

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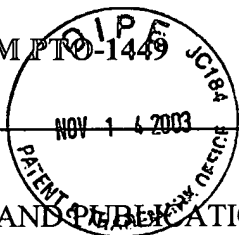
Group Art:

unknown

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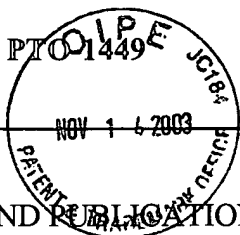
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FORM PTO-1449E



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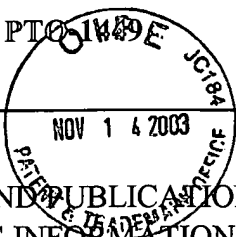
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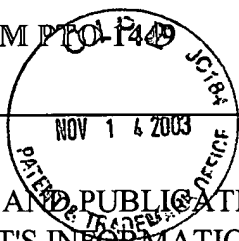
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FORM PTO-1449



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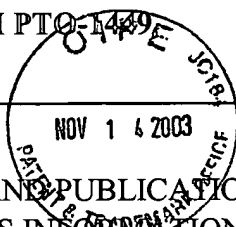
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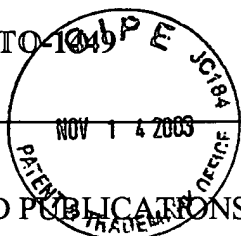
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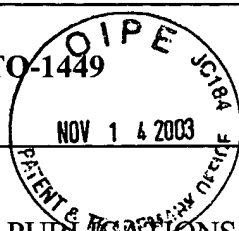
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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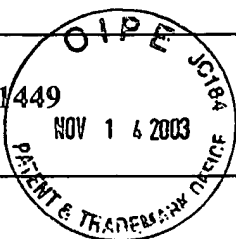
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✓	Bowers et al., "Fused Vertical Cavity Lasers With Oxide Aperture", Final report for MICRO project 96-042, Industrial Sponsor: Hewlett Packard, 4 pages, 1996-97.
✓	Catchmark et al., "High Temperature CW Operation of Vertical Cavity Top Surface-Emitting Lasers", <u>CLEO 1993</u> , p. 138.
✓	Chemla et al., "Nonlinear Optical Properties of Semiconductor Quantum Wells", <u>Optical Nonlinearities and Instabilities in Semiconductors</u> , Academic Press, Inc., Copyright 1988, pp. 83-120.
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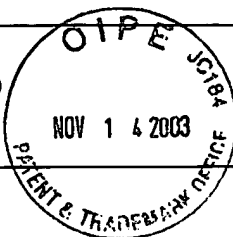
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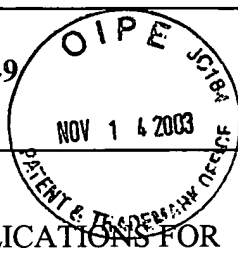
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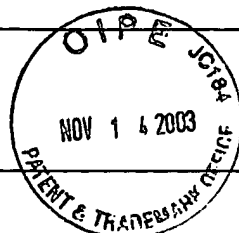
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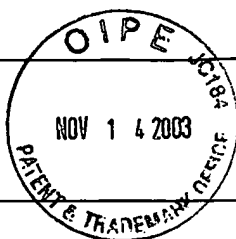
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